

THE EARLIER STAGES OF SPHINX GORDIUS.

BY WILLIAM BEUTENMÜLLER.

Egg.—Globular, smooth, shining, pale green. Width, 1 mm. Height, .75 mm. The egg is similar to that of *Sphinx lucitosa*, but is smaller and more globular. Emerged July 6th.

Stage I.—Pale whitish green, caudal horn jet black, with two hair-like bristles at the tip. Length, 3.5 mm. As the larva becomes older there appears at the sides five white oblique bands and a subdorsal stripe of the same color. Length, 7 mm. Getting ready to moult July 10th and 11th. Moulded July 11th and 12th.

Stage II.—Pale green with pale yellow granulations, and pale yellowish oblique bands at the sides and a subdorsal stripe, broken by the bands. Caudal horn reddish brown, cherry red at base. Feet, legs and head, pale green. Getting ready to moult July 14th and 15th. Moulded July 15th and 16th. Length, 12 mm.

Stage III.—Pale green, thickly beset with yellowish granulations, and a short subdorsal stripe on each side composed of yellow granulations. The oblique bands yellow behind, red in front and slightly white in the middle. Head green with a yellow stripe on each side in front. Caudal horn red with short spines. Thoracic feet red. Abdominal and anal legs green. Getting ready to moult July 18th and 19th. Moulded July 19th and 20th. Length, 18 mm.

Stage IV.—Head light green with a broad yellow stripe on each side in front. Body bright whitish green with the oblique bands broad, bright crimson in front, yellowish behind and white in the middle. Caudal horn crimson. Thoracic feet crimson. Sometimes the caudal horn is crimson above, orange beneath or blackish above, yellow beneath and red at the sides. Moulded July 23d and 24th. Length, 24 mm.

Stage V.—Same as in the previous stage. Moulded July 29th and 30th. Length 35 mm.

Stage VI.—Body bright apple green with numerous small yellowish or whitish dots, some of which are encircled with black. Along each side are seven oblique, bright carmine stripes, which are white posteriorly, the carmine shading into the white. Caudal horn black at the sides and tip, green at the middle above and beneath. Spiracles orange. Head with a yellowish and brownish stripe on each side in front. Thoracic feet pink, greenish at the base. Abdominal and anal legs green. Length, 65 mm.

Food-plants: Apple, huckleberry, *Myrica*.